

Controls

Manual Motor Protectors - MPW65 Technical Data

General Rating

TYPE			MPW65-3-U016	MPW65-3-U020	MPW65-3-U025	MPW65-3-U032	MPW65-3-U040	MPW65-3-U050	MPW65-3-U065
Standards			Devices according to International Standards IEC 60947-1 / 60947-4-1, European Standards EN 60947-1 / 60947-4-1, Underwriters Laboratories - UL 508; CSA C.22.2/14; VDE 0660/102						
Current Setting Range		[A]	10 - 16	16 - 20	20 - 25	25 - 32	32 - 40	40 - 50	50 - 65
Rated Thermal Current Ith		[A]	16	20	25.00	32	40.0	50	65
Rated Insulation Voltage Ui									
Acc. IEC; VDE 0660		[V]	690						
Acc. UL; CSA		[V]	600						
Rated Operating Voltage Ue									
Acc. IEC; VDE 0660		[V]	690						
Acc. UL; CSA		[V]	600						
Rated Impulse Voltage Uimp									
Acc. IEC60947-1		[kV]	6						
Rated Operating Frequency		[Hz]	50/60						
Overvoltage Category			III						
Pollution Degree			3						
Utilization Category									
IEC 60947-2 (Motor Protector)			A						
IEC 60947-4-1 (Motor Starter)			AC-3						
Lifespan									
Mechanical		[ops.]	50,000						
Electrical (Ie max.)		[ops.]	25,000						
Switching Rate (motor starts)	AC-3	[ops/hr]	15						
Ambient Temperature									
Storage		[oC (oF)]	-50 to +80 (-58 to +176)						
Operating		[oC (oF)]	-20 to +60 (-4 to +140)						
Ambient Temperature Compensation		[oC (oF)]	-20 to +60 (-4 to +140)						
Climatic Proofing			IEC 60068-2-3 / IEC 60068-2-30						
Altitude			Nominal Values (for higher altitudes refer to page 244)						
Up to 2,000m (6,600ft)									
Degree of protection			IP20						
Resistance to Shock									
Acc. IEC 60068-2-27		[g]	15						
Resistance to Vibration			IEC 68-2						
Protection against direct contact			Finger and back of hand proof						
Acc. IEC 536; DIN VDE 0106 Part 100									
Phase Failure Sensitivity Protection			Yes						
Overload Protection Characteristics	x Iu	[A]	0.6 - 1						
Magnetic Release	x Iu	[A]	13						
Overload Trip Class			10						
Total Power Loss Pv									
At rated load operating temperature		[W]	8	8	8	8	8	8	8
Weight		[kg]	0.60						
		[lb]	1.42						
Type of Terminal			Flat Type						
Screw Driver			Allen #4						
Terminal Capacity									
Solid		[mm ²]	Refer to table on page 243						
Stranded		[mm ²]							
Solid or Stranded		[AWG]							
Tightening Torque		[N.m (lb. in)]	4.0 - 4.6 (35 - 55)						
Mounting Position			Any Position						



Controls

Manual Motor Protectors - MPW65 Technical Data

Power Contact Ratings

TYPE			MPW65-3-U016	MPW65-3-U020	MPW65-3-U025	MPW65-3-U032	MPW65-3-U040	MPW65-3-U050	MPW65-3-U065	
UL/CSA DATA										
Rated Operational Current I _e		[A]	16	20	25	32	40	50	65	
Magnetic Release Current		[A]	208	260	325	416	520	650	845	
Max. Short Circuit Current										
	480V	[kA]	50				35			
	600V	[kA]	30				10			
Motor Load, 1-phase										
	115V	[HP]					3	-	5	
	230V	[HP]					7 1/2	10	10	
Motor Load, 3-phase										
	200V	[HP]					-	15	20	
	230V	[HP]					15	15	20	
	460V	[HP]					25	30	50	
	575V	[HP]					30	40	60	
Max. Rated Current of Protection Device for Group Installation										
	Fuse or MCCB	[A]								
IEC DATA										
Rated Operational Current I _e		[A]	16	20	25	32	40	50	65	
Magnetic Release Current		[A]	208	260	325	416	520	650	845	
Back-Up Fuses										
gL/gG	220/240V	[A]	-	-	-	-	-	-	-	
	380/400V	[A]	100	125	125	125	160	160	160	
	415/440V	[A]	80	80	80	100	125	125	125	
	500V	[A]	80	80	100	80	100	100	100	
	660/690V	[A]	63	63	63	63	63	80	80	
Ultimate Short Circuit Breaking Capacity										
I _{cu}	220/240V	[kA]	100	100	100	100	100	100	100	
	380/400V	[kA]	50	50	50	50	50	50	50	
	415/440V	[kA]	50	50	50	50	50	50	50	
	500V	[kA]	15	15	15	15	15	15	15	
	660/690V	[kA]	8	8	8	5	5	5	5	
Rated Service Short Circuit Breaking Capacity										
I _{cs}	220/240V	[kA]	100	100	100	100	100	100	100	
	380/400V	[kA]	50	50	50	50	50	50	50	
	415/440V	[kA]	50	50	50	50	50	50	50	
	500V	[kA]	15	15	15	15	10	10	10	
	660/690V	[kA]	8	8	8	5	5	5	5	